

# SOUTHERN CALIFORNIA DX CLUB

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OH2BH 60th BIRTHDAY  
Nov 18, 2006 Yea I know it's  
over but, Happy Birthday any-  
way

Next meeting. PAARRTTY  
DEC. 3



#4171

From Cliff Cheng KI6CM

Joe Provenza, W6UPN sent me this link.

[http://mrtmag.com/mag/radio\\_back\\_basics\\_2/](http://mrtmag.com/mag/radio_back_basics_2/)

Its an article on the future of ham radio in relationship to newer technologies. The author is on target when he points out that the ham population is greying and it will impact our ability to carry out the mission Congress had for us when ham radio was set up in the Federal Communication s Act of 1934, EmComm. We had a great response to Katrina. As a former gov't exec, I worry that if another Katrina level disaster were to happen in 5 or 10 years, how many of those hams would be physically able to take the rigors of packing themselves up and going across country and helping out for a week or two living under harsh conditions?

Unlike the author of this article, I see very few people still experimenting. There not as many when I started out in the 70s. I applaud the ones who are still at it. There are bright spots in the QRP and Elecraft communities in which experimentation is alive and well. Ingenuity is a very important part of ham radio. You simply dont get this from the newer hams would rather use their credit cards than open up their radio and find out what's wrong

Please check out my new website, the Novice Historical Society,  
[www.Novice.bappy.com](http://www.Novice.bappy.com)

I put up the site to celebrate our novice years. For almost every novice it was a sweet innocent time in which we were really excited about ham radio. Grown-up hams went out of their way to help us. Please write us a little story and sent us a picture of you as a novice.

--

Cliff Cheng, Ph.D., KI6CM  
Licensed Since 1975

## FROM THE PEANUT GALLERY

Hi Steve,

I was wandering the valley and stopped at W6VX. He has a great new ICOM 7800 so I took a picture and remembered your newsletter request for pictures. So here is your copy. 73 Don N6IC



THIS MAN WILL BECOME FAMOUS  
A MAN OF MANY COUNTRIES

DE the VP  
Jeff Wolf, K6JW



Time for the holiday party! Hope to see you there. Once again, we'll be gathering at the Orange Hill Restaurant for their fabulous brunch. No formal program but lots of good companionship, great food, and prizes, the best of which will be an IC-7000 just like the one we gave away at the SCDXC Picnic. Bottom line: BE THERE!

My long dry spell is almost over. L.A. County finally issued the building permit for my tower, so I hope to be back on the air from home by sometime in January, all being well. Operating mobile from the MDX has been fun but, hey, it ain't home.

The January program is still not finalized, so you'll want to check out the January newsletter as soon as it becomes available.

I'm pleased to say that the Board has come up with a full slate of candidates to recommend as your Club officers for 2007. The election will be in January, so do plan to be there. Nominations will be welcome from the floor, in case anyone else would like to run for office.

At this time, I'd like to thank the members of the 2006 Board for their extraordinary support and great work during the past year. I'd especially like to thank Bubba for being greatly supportive of his VP (me), and for just being a friend this past year. Thanks, Bubba!

I'd also like to thank Doc for the great arrangement we've had this year to deal with finance management for the raffles and other Club expenses. Everything by scanned receipts and e-mail made the job a piece of cake.

Steve has been a wonder with the newsletter, and the whole Club owes him a tremendous vote of thanks for resurrecting it after several months of what can only be described as nonexistence. Steve has agreed to continue to oversee the newsletter in 2007, and I'm truly grateful that he'll be continuing his great work.

Past President Jim has provided wisdom and practical assistance this past year that has been invaluable. Personally, I don't think I could have carried off the job without his support so, thanks Jim.

Larry, as the go-to guy for Membership, has served the Club faithfully and enthusiastically, and we all owe him a vote of thanks for his great work.

Finally, Dave and Howard, our two at-large Board members, have lent their wisdom to the Club this past year and each deserves our thanks. Dave, in particular, went above and beyond when he was able to secure the IC-7000 we'll be giving away at the Holiday party from ICOM at a most favorable price. Dave, the Club salutes you, and whoever wins the IC-7000 should wax your car for the next year in gratitude!

So, another year gone by. We're all a bit older and, if lucky, a bit wiser. Happy holidays to all – see you at the party! 73, JW

Physics promises wireless power  
By Jonathan Fildes  
Science and technology reporter, BBC News

Plugs and wires could soon become a thing of the past

The tangle of cables and plugs needed to recharge today's electronic gadgets could soon be a thing of the past.

US researchers have outlined a relatively simple system that could deliver power to devices such as laptop computers or MP3 players without wires.

The concept exploits century-old physics and could work over distances of many metres, the researchers said.

Although the team has not built and tested a system, computer models and mathematics suggest it will work.

"There are so many autonomous devices such as cell phones and laptops that have emerged in the last few years," said Assistant Professor Marin Soljacic from the Massachusetts Institute of Technology and one of the researchers behind the work.

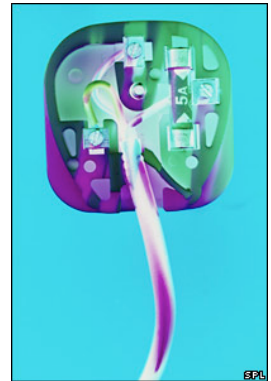
"We started thinking, 'it would be really convenient if you didn't have to recharge these things'.

"And because we're physicists we asked, 'what kind of physical phenomenon can we use to do this wireless energy transfer?'."

## How wireless energy could work

The answer the team came up with was "resonance", a phenomenon that causes an object to vibrate when energy of a certain frequency is applied.

"When you have two resonant objects of the same frequency they tend to couple very strongly," Professor Soljacic told the BBC News website. Resonance can be seen in musical instruments for example.



"When you play a tune on one, then another instrument with the same acoustic resonance will pick up that tune, it will visibly vibrate," he said. Instead of using acoustic vibrations, the team's system exploits the resonance of electromagnetic waves. Electromagnetic radiation includes radio waves, infrared and X-rays.

Typically, systems that use electromagnetic radiation, such as radio antennas, are not suitable for the efficient transfer of energy because they scatter energy in all directions, wasting large amounts of it into free space.

To overcome this problem, the team investigated a special class of "non-radiative" objects with so-called "long-lived resonances". When energy is applied to these objects it remains bound to them, rather than escaping to space. "Tails" of energy, which can be many metres long, flicker over the surface.

"If you bring another resonant object with the same frequency close enough to these tails then it turns out that the energy can tunnel from one object to another," said Professor Soljacic.

## Wireless energy transfer has been thought about for centuries

Hence, a simple copper antenna designed to have long-lived resonance could transfer energy to a laptop with its own antenna resonating at the same frequency. The computer would be truly wireless. Any energy not diverted into a gadget or appliance is simply reabsorbed. The systems that the team have described would be able to transfer energy over three to five metres.

"This would work in a room let's say but you could adapt it to work in a factory," he said.

"You could also scale it down to the microscopic or nanoscopic world."

## Old technology

The team from MIT is not the first group to suggest wireless energy transfer.

Nineteenth-century physicist and engineer Nikola Tesla experimented with long-range wireless energy transfer, but his most ambitious attempt - the 29m high aerial known as Wardenclyffe Tower, in New York - failed when he ran out of money.

Others have worked on highly directional mechanisms of energy transfer such as lasers.

However, these require an uninterrupted line of sight, and are therefore not good for powering objects around the home.

A UK company called Splashpower has also designed wireless recharging pads onto which gadget lovers can directly place their phones and MP3 players to recharge them.

The pads use electromagnetic induction to charge devices, the same process used to charge electric toothbrushes.

One of the co-founders of Splashpower, James Hay, said the MIT work was "clearly at an early stage" but "interesting for the future".

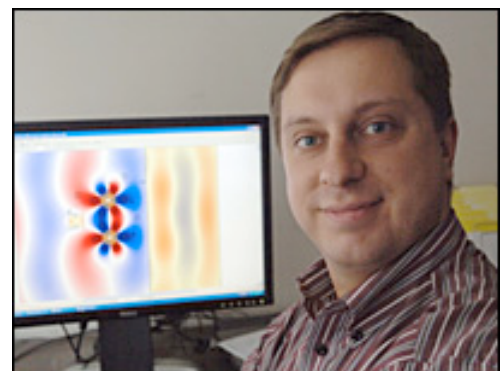
"Consumers desire a simple universal solution that frees them from the hassles of plug-in chargers and adaptors," he said.

"Wireless power technology has the potential to deliver on all of these needs."

However, Mr Hay said that transferring the power was only part of the solution.

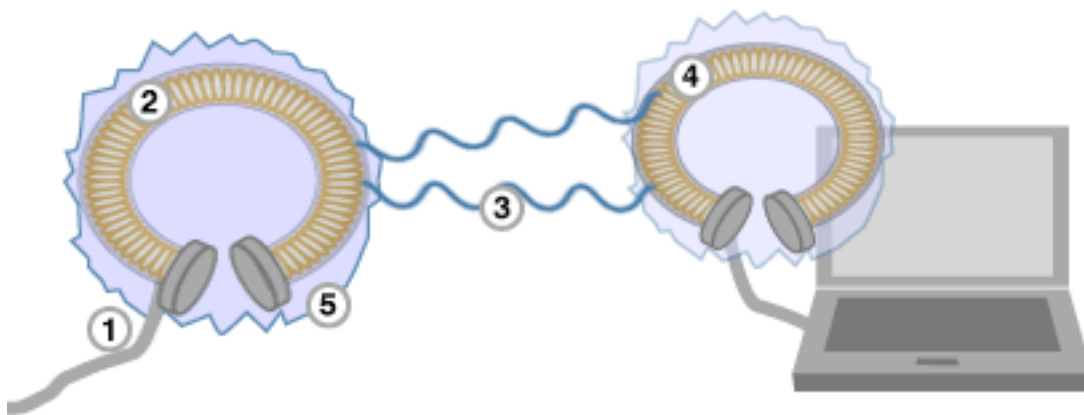
"There are a number of other aspects that need to be addressed to ensure efficient conversion of power to a form useful to input to devices."  
"

Professor Soljadic will present the work at the American Institute of Physics Industrial Physics Forum in San Francisco on 14 November.



Marin Soljadic





## HOW WIRELESS POWER COULD WORK

- 1) Power from mains to antenna, which is made of copper
- 2) Antenna resonates at a frequency of 6.4MHz, emitting electromagnetic waves
- 3) 'Tails' of energy from antenna 'tunnel' up to 5m (16.4ft)
- 4) Electricity picked up by laptop's antenna, which must also be resonating at 6.4MHz. Energy used to re-charge device
- 5) Energy not transferred to laptop re-absorbed by source antenna. People/ other objects not affected as not resonating at 6.4MHz

## MORE ADVANCES OR ANOTHER BPL?

### FOR SALE

KLM-KT34XA

HY-GAIN V2S 2M VERT.

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### For Sale:

Kenwood TS-940 HF transceiver, includes autotuner and cw filter options.  
\$700

Kenwood TS-450 HF transceiver \$500 Contact Ray Benny,  
N6VR (805)649-9696 for more info.

## EDITORS NOTES

Been a heck of a year for the club this year. All the excitement you could like. Operations from Peter One. New countries abound and I'm still in storage.

Next year will be better, I'll sell my house, buy a new one, call Skip and make a million contacts....yea, yea, yea.

Other things happening too. Dan is going to Colorado and selling his house. He asked me to put a picture of it in the newsletter but, sorry Dan, when my computer failed it took a whole lot of my documents file. Yep, I lost my heart in Windows land. I managed to save very little. But more important, the club will lose a great friend. Don't forget Visalia Dan. We wish you great success in you new endeavors and peace in your new home.

Other great things happened this year like the annual September bidding follies and the anchors that we trade each year. Don went to China to count the steps in the wall. Jeff went to NZ and was a quiet key. Others had fun and all in all, us DX'ers did OK.

I received a letter from the NCDXF thanking us for our recent donation. The Foundation was saddened that the word around was that we were not recognized and it was simply not true.

Some folks were unaware, including me as the Secretary, that the Foundation had been sending newsletters and thank you letters each year, but for some reason we did not receive them. I have asked them to check the CLUBS web site and send snail mail to the listed Secretary and to send all e-mail to [secretary@scdxc.org](mailto:secretary@scdxc.org). This way our club will always be informed and maybe we can dispense with continual discussions and voting on whether to donate to the Foundation or not. The last board meeting voted to maintain the Foundation donations and to set up a committee to define rules by which we might make other donations. I have spoken too long and forgot too much that I didn't say.

MERRY CHRISTMAS AND HAPPY HANUKKAH





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### Membership Application

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E-mail: \_\_\_\_\_ ☐ Do not list in club directory  
or web site

Are you an ARRL Member? Yes: ☐ NO: ☐ LIFE: { }

**Dues: Membership US\$18.00 (Add'l Family Members US\$4.50ea)**

**Badges Small (2" X 3") \_\_ or Large (3.75" X 3" \_\_ Both are US\$9.00ea including postage  
(to US addresses).**

Overseas Members contact Larry Mallek, K6YUI, at [k6yui@scdxc.org](mailto:k6yui@scdxc.org) for costs.

Mail to: Larry Mallek, K6YUI  
2528 Britain Way,  
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Dues recvd by \_\_\_\_\_ Amt \$ \_\_\_\_\_ Date \_\_\_\_\_ Full Member ☐

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DXCC \_\_\_\_\_ WAZ \_\_\_\_\_ Former Member \_\_\_\_\_ At-Large ☐

Notes:

## WHO WE ARE

We are FCC licensed members of the Amateur Radio Fraternity who enjoy talking to people and making friends from around the world using different modes of Radio Transmission.

The SCDXC Newsletter is published monthly by the Southern California DX Club and is distributed to all club members. Please notify the editor if you do not receive your newsletter, have a change of address, or have found an error. Submissions are welcome and please direct all such articles to the editor. Some articles may be edited for size or content. Content, written comments and opinions are not necessarily those of the editor or the Southern California DX Club.

The SCDXC generally permits reuse of any article in the Newsletter as long as the newsletter and the article's author are credited. However, some articles may be copyrighted by the author. Please contact the editor.

Monthly meetings are held at 1930 hrs on the 2<sup>nd</sup> Thursday of each month at the Syd Kronenthal Park in Culver City. See the club web page for directions.

No meeting months are April (Visalia), December (Christmas Party). Other months as announced.

Some members meet at the Roll and Rye Deli in Culver City at 6PM for eats and gossip catch up.

**Get info on W6AM Club Repeater: 145.48 MHz, 100 Hz PL**

**Club Web Site: [www.scdxc.org](http://www.scdxc.org)**

## Editor

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